

Title (en)  
Partially fluorinated compounds and polymers.

Title (de)  
Teilweise fluorinierte Verbindungen und Polymere.

Title (fr)  
Composés et des polymères partiellement fluorés.

Publication  
**EP 0352718 A2 19900131 (EN)**

Application  
**EP 89113654 A 19890725**

Priority  
US 22386788 A 19880725

Abstract (en)  
Partially fluorinated compounds of formula  $H_2C=CH-R_f-CH_2CH_2-Y$  (1) wherein Y is independently selected from the group consisting of -CN, -CH<sub>2</sub>NH<sub>2</sub>, -COOH, -CH<sub>2</sub>OH, -CH<sub>2</sub>N=C=O, -CONH<sub>2</sub>, -CHO, -COCl, and -COOR, wherein R is C<sub>n</sub>H<sub>2n+1</sub> and n is an integer from 1 to 10, inclusive; and R<sub>f</sub> is a perfluorinated divalent organic radical selected from the group consisting of linear, branched, carbocyclic, and mixtures thereof having from 1 to about 40 carbon atoms and containing from zero to about 20 ether linkages and formula Y min -CH<sub>2</sub>CH<sub>2</sub>-R<sub>f</sub>-CH<sub>2</sub>CH<sub>2</sub>-Y min (2) wherein Y min is independently selected from the group consisting of -CN, -CH<sub>2</sub>NH<sub>2</sub>, -CH<sub>2</sub>OH, -CH<sub>2</sub>N=C=O, -CONH<sub>2</sub>, -CHO, -COCl, and -COOR, wherein R is C<sub>n</sub>H<sub>2n+1</sub> and n is an integer from 1 to 10, inclusive; and R<sub>f</sub> is a perfluorinated divalent organic radical selected from the group consisting of linear, branched, carbocyclic, and mixtures thereof having from 1 to about 40 carbon atoms and containing from zero to about 20 ether linkages, that are useful as chemical intermediates and monomers are disclosed. Partially fluorinated polymers prepared from (2) are also disclosed.

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